STIC Search Report
EIC 2800

STIC Database Tracking Number: 130565

TO: Anthony Green Location: REM-9C15 August 26, 2004 AU 1755 Case Serial No. : 10/657,485	From: Jeff Harrison Location: STIC-EIC2800 JEF-4B68 Phone: 22511 Email: harrison, jeff

Search Notes

Examiner Green,

Re: Monoazo Dye

Attached are search results, mostly from CAS/Chemical Abstracts.

I yellow-tagged what seems to be the closest art found.
It is the CAS Registry data record for the sought structure. CAS input this record into the publicly-available CAS Registry database on 12/13/1999. Strangely, I find no STN abstract indexed to the CAS Registry number, 250639-69-1, for this structure. Note that this CAS Registry number, 250639-69-1, is listed in the 10/657,485 IDS.

The orange-tagged 1957 abstract shows this sought structure, minus the strontium, used with Ba, Ca, and Mg ions, which seem analogous to Sr.

Based on this, if you have questions or comments, or if you would like refocused searching, please let me know.

Thanks,
Jeff Harrison, Team Leader, STIC-EIC2800, JEF-4B68, 571-272-2511

Jeff

STIC Search Results Feedback Form

EIC 2800

Questions about the scope or the results of the search? Contact ***the EIC searcher or contact:***

Jeff Harrison, EIC 2800 Team Leader
571-272-2511, JEF 4B68

Voluntary Results Feedback Form

- *I am an examiner in Workgroup:* ☐ *Example: 2810*
- *Relevant prior art **found**, search results used as follows:*
  - ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
  (journal articles, conference proceedings, new product announcements etc.)

- *Relevant prior art **not found:***
  - ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2800, CP4-9C18

```
     FILE 'HCAPLUS' ENTERED AT 08:46:48 ON 26 AUG 2004
L1          59 S    BINDRA A?/AU,IN
L2           4 S    L1 AND (MONOAZO###### OR MONO AZO####)
L3             SEL PLU=ON  L2 1- RN :      50 TERMS

     FILE 'REGISTRY' ENTERED AT 08:47:26 ON 26 AUG 2004
L4          50 S    L3
L5           2 S    L4 AND 4/NR
L6          14 S    L4 AND SR/ELS
L7   0  S SR/ELS AND 4/NR AND MONOAZO####### AND S/ELS AND O/ELS AND (OL OR HYDROX##### OR ALCOHOL)
L8           0 S    4/NR AND MONOAZO####### AND S/ELS AND O/ELS AND (OL OR HYDROX##### OR ALCOHOL)
L9           0 S    2/NR AND MONOAZO####### AND S/ELS AND O/ELS AND (OL OR HYDROX##### OR ALCOHOL)
L10          0 S    2/NR AND MONOAZO####### AND S/ELS AND
               O/ELS AND SR/ELS
L11         19 S    4/NR AND AZO####### AND S/ELS AND O/ELS AND SR/ELS
L12          2 S    2/NR AND AZO####### AND S/ELS AND O/ELS AND SR/ELS
L13         18 S    (L11 OR L12) AND (OL OR HYDROX####### OR  ALCOHOL)
L14         10 S    L13 AND (SULFATE OR SULFON######)
L15         10 S    L14 NOT L5
L16      92533 S    591.49.57/RID AND AZO
L17      50553 S    L16 AND SULFON#####
L18      42673 S    L17 AND (HYDROX####### OR OL OR ALCOHOL)
L19         40 S    L18 AND SR/ELS
L20         20 S    L4 AND 591.49.57/RID
L21         12 S    L6 AND L20
L22         66 S    ((L5 OR L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR L14 OR L15) OR
(L19 OR L20 OR L21))
L23          3 S    L22 AND (RED OR MAGENTA)
L24          1 S    250639-69-1/RN,CRN
L25         10 S    21416-46-6/RN,CRN
L26          1 S    21416-46-6/RN
L27          1 S    21416-46-6/CRN AND SR/ELS
L28          1 S    L27 NOT L15
L29          0 S    L27 NOT L23
L30        121 S    SR/MF

     FILE 'REGISTRY' ENTERED AT 09:04:09 ON 26 AUG 2004
L34          1 S    21416-46-6/RN

     FILE 'HCAPLUS' ENTERED AT 09:04:09 ON 26 AUG 2004
L35         26 S    L34
L36          0 S    L34(L)(SR OR STRONTIUM)
L37          1 S    L34 AND (SR OR STRONTIUM OR L30)

     FILE 'REGISTRY' ENTERED AT 09:12:47 ON 26 AUG 2004
L38          1 S    29128-55-0
L39          1 S    6371-67-1/RN

     FILE 'HCAPLUS' ENTERED AT 09:15:15 ON 26 AUG 2004
L40          9 S    L39

     FILE 'REGISTRY' ENTERED AT 09:15:16 ON 26 AUG 2004
L41          1 S    250639-69-1/RN
L42          0 S    L41
L43          9 S    L42 OR L40

     FILE 'REGISTRY' ENTERED AT 09:15:16 ON 26 AUG 2004
L44          1 S    29128-55-0/RN

     FILE 'HCAPLUS' ENTERED AT 09:15:17 ON 26 AUG 2004
L45         20 S    L44

     FILE 'REGISTRY' ENTERED AT 09:20:06 ON 26 AUG 2004
L46          1 S    111797-52-5
L47          3 S    111797-52-5/CRN
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FILE 'HCAPLUS' ENTERED AT 09:23:42 ON 26 AUG 2004

L48 30 **S** L40 OR L43 OR L45 OR (L46 OR L47)
L49 5 **S** L48 AND (L30 OR SR OR STRONT########)
L50 2005 **S** (RED OR MAGENTA)(5A)(11779 OR 13 OR 49 OR 208)
L51 1 **S** (L46 OR L47)
L52 6 **S** L49 OR L51
L53 23 **S** L50 AND (SR OR STRONT######## OR L30)
L54 23 **S** L53 NOT L52

FILE 'HCAPLUS, WPIX, JAPIO, INSPEC, ANABSTR, PIRA, RAPRA' ENTERED AT 11:11:09 ON 26 AUG 2004

L55 20000 **S** NAPHTHALENESULF? OR NAPHTHALENESULPH?
L56 7717 **S** L55 AND (OH OR OL OR ALCOHOL OR HYDROX#######)
L57 2703 **S** L56 AND (MONOAZO###### OR AZO######)
L58 13 **S** L57 AND (SR OR STRONTIUM)
L59 SEL PLU=ON L58 1- RN IC : 206 TERMS

FILE 'REGISTRY' ENTERED AT 11:13:50 ON 26 AUG 2004

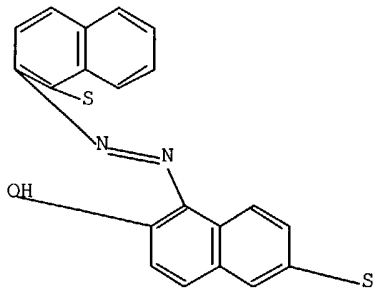
L60 192 **S** L59
L61 3 **S** L60 AND SR/ELS
L62 192 **S** L59
L63 132 **S** L62 AND AZO
L64 81 **S** L63 AND SULFON#####
L65 73 **S** L64 AND (HYDROX###### OR OL)
L66 8 **S** L65 AND 2/NR
L67 11 **S** L61 OR L66
L68 SEL PLU=ON L67 1- RN : 11 TERMS

FILE 'HCAPLUS, WPIX, JAPIO, INSPEC, ANABSTR, PIRA, RAPRA' ENTERED AT 11:16:14 ON 26 AUG 2004

L69 59439 **S** L68
L70 4 **S** L58 AND L69
L71 13 **S** L58 OR L70

FILE 'MARPAT' ENTERED AT 11:27:08 ON 26 AUG 2004

L72 STRUCTURE UPLOADED



L73 3 SEA SSS SAM L72
L74 48 SEA SSS FUL L72
L75 45 **S** L74 NOT L73

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     FILE 'ADISINSIGHT, ADISNEWS, AGRICOLA, ALFRAC, ANABSTR, AQUIRE, ASMDATA,
     BEILSTEIN, BIOBUSINESS, BIOSIS, BIOTECHNO, CABA, CANCERLIT, CAOLD,
     CAPLUS, CASREACT, CBNB, CEABA-VTB, CEN, CFR, CHEMCATS, CHEMINFORMRX,
     CHEMLIST, CHEMSAFE, CIN, COPPERDATA, CSCHEM, ...' ENTERED AT 16:15:18 ON
     26 AUG 2004
L1            1 SEA ABB=ON  PLU=ON  250639-69-1

     FILE 'REGISTRY' ENTERED AT 16:23:18 ON 26 AUG 2004
L2            1 SEA ABB=ON  PLU=ON  141025-34-5
L3            1 SEA ABB=ON  PLU=ON  83249-60-9
L4            1 SEA ABB=ON  PLU=ON  73019-25-7
L5            1 SEA ABB=ON  PLU=ON  67990-37-8
L6            4 SEA ABB=ON  PLU=ON  (L2 OR L3 OR L4 OR L5)
                D FIDE 1-4
L7            3 SEA ABB=ON  PLU=ON  111797-52-5/CRN

     FILE 'HCAPLUS' ENTERED AT 16:24:57 ON 26 AUG 2004
L8            0 SEA ABB=ON  PLU=ON  L7
L9            0 SEA ABB=ON  PLU=ON  L7 NOT L6
L10           1 SEA ABB=ON  PLU=ON  L6
                D ALL HITSTR
L11             SEL PLU=ON  L10 1- RN :      11 TERMS

     FILE 'REGISTRY' ENTERED AT 16:26:54 ON 26 AUG 2004
L12          11 SEA ABB=ON  PLU=ON  L11
L13           2 SEA ABB=ON  PLU=ON  L12 AND SR/ELS
                D FIDE 1-2

     FILE 'HCAPLUS' ENTERED AT 16:27:32 ON 26 AUG 2004
L14           3 SEA ABB=ON  PLU=ON  L13 NOT L10
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CAS Registry Database

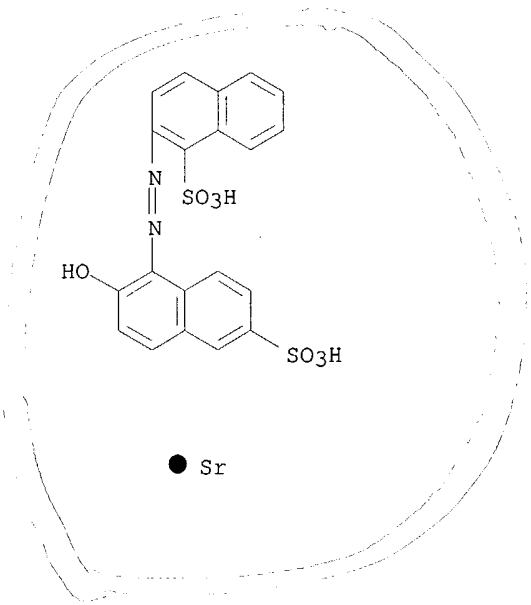
8/26/04

10/657,485

L15 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2004 ACS on STN
RN 250639-69-1 REGISTRY
ED Entered STN: 13 Dec 1999
CN **1-Naphthalenesulfonic acid, 2-[(2-hydroxy-6-sulfo-1-naphthalenyl)azo]-, strontium salt (1:1) (9CI)** (CA INDEX NAME)
MF **C20 H14 N2 O7 S2 . Sr**
SR CAS Client Services
CRN (111797-52-5)

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C6-C6	C6-C6	6-6	C10	591.49.57	2

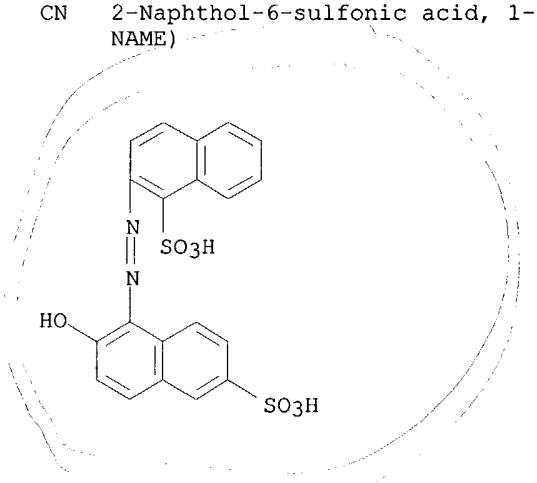


This record was entered into the CAS Registry file by CAS Client Services department on December 13, 1999.

However, I find no journal article, patent or conference paper associated with this CAS Registry Number, 250639-69-1, in a search of CAS / STN.

STIC-EIC2800 JEF-4B68
Jeff Harrison

L51 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1958:65097 HCAPLUS
DN 52:65097
OREF 52:11648h-i
ED Entered STN: 22 Apr 2001
TI Synthetic and analytical studies on color reagents. IV. Behavior of o-sulfo-o'-hydroxy azo compounds to magnesium, calcium, and barium
AU Emi, Koichi; Toei, Kyoji; Miyata, Haruo
CS Okayama Univ.
SO Nippon Kagaku Zasshi (1957), 78, 977-8
CODEN: NPKZAZ; ISSN: 0369-5387
DT Journal
LA Unavailable
CC 7 (Analytical Chemistry)
AB Reagents were prepared by coupling a diazo component with an azo component. As the diazo component, 1-naphthylamine-2-sulfonic acid, 2-naphthylamine-1-sulfonic acid, p-toluidine-2-sulfonic acid, 5-chloro-p-toluidine-2-sulfonic acid, 4-chloro-m-toluidine-6-sulfonic acid, and 2-chloro-5-amino-4-sulfobenzoic acid were used. As the azo components, 10 derivs. of 1- and 2-naphthols were used. Color of these reagents changes at pH 11-13, and upon the addition of Mg++, Ca++, or Ba++, it changes to the acid color. Limits of detection (I) of these ions are given. I depends chiefly on the azo component, and chromotropic acid and R acid give a high sensitivity. In the above diazo components, only the sulfo group has an effect on I.
IT **111797-52-5**, 2-Naphthol-6-sulfonic acid, 1-[1-sulfo-2-naphthylazo]- (in analysis for Ba, Ca and Mg)
RN 111797-52-5 HCAPLUS
CN 2-Naphthol-6-sulfonic acid, 1-(1-sulfo-2-naphthylazo)- (6CI) (CA INDEX NAME)



No Sr salt

L10 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1992:257360 HCAPLUS
DN 116:257360
ED Entered STN: 27 Jun 1992
TI Preparation of mixed laked azo pigments
IN Necas, Miroslav; Plechacek, Vaclav

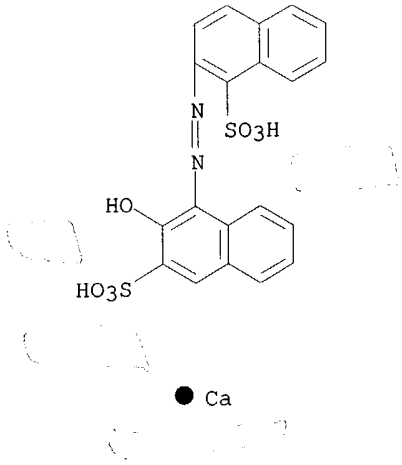
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 268606	B1	19900314	CS 1988-6215	19880919
PRAI	CS 1988-6215		19880919		

AB Red pigments for printing inks, varnishes, and plastics with brilliant modified shades are prepared by coupling a mixture containing 75-99.5% diazotized 2,4,5-H2N(R1)(R2)C6H2SO3H (R1, R2 = H, Cl, Me) and 0.5-25% diazotized 2,n-H2NC10H6SO3H (n = 1, 5, 6, 7, 8) with 3,2-HOC10H6CO2H (I) and laking the zo dye with Ca, Ba, Mg, Sr, or Mn. A mixture containing 96 mol% Ca salt of 2,4-HO3S MeC6H3NH2 → I (II) and 4 mol% Ca salt of 1,2-HO3SC10H6-NH2 → I was prepared in this way and had a more bluish shade than II.

ST azo pigment mixt lake

IT **141025-34-5**
RL: USES (Uses)
(mixts. containing, manufacture of, as pigments)

RN 141025-34-5 HCAPLUS
CN 1-Naphthalenesulfonic acid, 2-[(2-hydroxy-3-sulfo-1-naphthalenyl)azo]-, calcium salt (1:1) (9CI) (CA INDEX NAME)



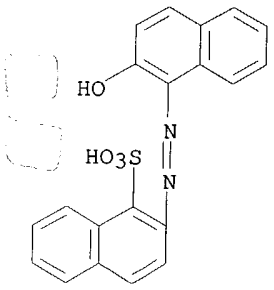
L71 ANSWER 6 OF 13 **HCAPLUS COPYRIGHT ACS on STN**
AN 1964:433099 HCAPLUS Full-text
DN 61:33099
OREF 61:5817g-h
ED Entered STN: 22 Apr 2001
TI **Azo** pigments. IV.Pigments of **azo** lakes with various metals
AU Bansho, Yoshie; Suzuki, Shigeru; Saito, Iho
SO Kogyo Kagaku Zasshi (1964), 67(1), 182-5
CODEN: KGKZA7; ISSN: 0368-5462
DT Journal
LA Unavailable
CC 46 (Dyes)
GI For diagram(s), see printed CA Issue.
AB Variation of pigment properties of **azo** lakes with various metals was studied. Thus, Orange II (C.I. 15510), Bordeaux 10B (C.I. 15880), Lithol Red (C.I. 15630), Lake Red C (C.I. 15585), Watehung Red (C.I. 15865), Carmine 33 (C.I. 16105), or Carmine 6B (C.I. 15850) were faked with Na, Mg, Ca, **Sr**, Ba, Mn, Fe, Co, Ni, or Zr salts and 69 **azo** lakes were obtained. The color of the pigments, the fastness to light, H2O, alkali, acid, **alc.**, oil, and heat were observed. The exptl. resuits showed that the color of the **azo**-lake pigments laked with alkaline earth metals was shifted bathochromically, but the color of the pigments laked with Mn or Group VIII metals was shifted hypsochromically. Mn-lake pigments were fast to light, and the pigments with alkaline earth metals were generally fast to H2O, alkali, **alc.**, and heat, but sensitive to acid and oil. The pigments with Group VIII metals had properties opposite to those with alkaline earth metals.
IT Pigments
(**azo**, metal lakes, preparation and fastness of)
IT Spectra, visible and ultraviolet
(of Lithol Red)
IT Spectra, visible and ultraviolet
(of **azo** pigment metal lakes)
IT C.I. Acid Orange 7, barium complex
C.I. Mordant Red 9, **strontium** complex
C.I. Pigment Red 49, **strontium** complex
C.I. Pigment Red 53, **strontium** complex
C.I. Pigment Red 57, **strontium** complex
C.I. Pigment Red 63, **strontium** complex
IT **7440-24-6, Strontium**
(compds., with **azo** pigments)
RN 7440-24-6 HCAPLUS
CN Strontium (8CI, 9CI) (CA INDEX NAME)

Sr

L23 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2004 ACS on STN
RN 6371-67-1 REGISTRY
ED Entered STN: 16 Nov 1984
CN **1-Naphthalenesulfonic acid, 2-[(2-hydroxy-1-naphthalenyl)azo]-, strontium salt (2:1) (9CI)** (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN **C.I. Pigment Red 49, strontium salt (2:1) (8CI)**
OTHER NAMES:
CN **11779 Red**
CN C.I. 15630:3
CN **C.I. Pigment Red 49:3**
CN **D and C Red No. 13**
CN **D&C Red No. 13**
CN **Pigment Red 49:3**
CN **Red No. 208**
MF **C20 H14 N2 O4 S . 1/2 Sr**
LC STN Files: CA, CAPLUS, CHEMLIST, TOXCENTER, USPATFULL
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PRP (Properties)
CRN (29128-55-0)

Ring System Data

Elemental Analysis EA	Elemental Sequence ES	Size of the Rings SZ	Ring System Formula RF	Ring Identifier RID	RID Occurrence Count
C6-C6	C6-C6	6-6	C10	591.49.57	2



●1/2 Sr

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

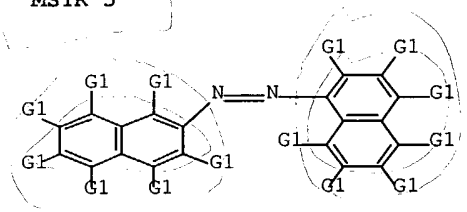
L75 ANSWER 16 OF 45 MARPAT COPYRIGHT ACS on STN
AN 132:71432 MARPAT Full-text
TI Photothermographic material having desired color
IN Weidner, Charles Harry; Java, Dorothy Theresa; Hershey, Stephen Alan; Priebe, Elizabeth Kizenko
PA Eastman Kodak Company, USA

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 969313	A1	20000105	EP 1999-201884	19990614
	EP 969313	B1	20030813		
	US 6174657	**B1**	**20010116**	**US 1998-103596**	**19980624**
	JP 2000029164	A2	20000128	JP 1999-176670	19990623

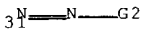
PRAI US 1998-103596 19980624

AB A photothermog. material comprises a support, a photosensitive emulsion layer comprising a binder, a light-insensitive organic silver salt, a reducing agent, and a photosensitive silver halide emulsion, an antihalation dye, and ≥1 tinting dye such that the final color space of the photothermog. material lies within the range defined by 220°<hab<260°, where hab is the psychometric hue angle, hab = arctan(b*/a*), as defined in the CIELAB color system.

MSTR 5



G1 = H / **OH** / NH2 (SO) / **SO3H** / NO2 / alkoxy (SO) / alkyl (SO) / 31 / R<TX "complex-forming group">



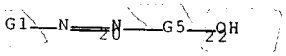
G2 = aryl
MPL: claim 8

L75 ANSWER 23 OF 45 MARPAT COPYRIGHT ACS on STN
AN 124:302743 MARPAT Full-text
TI Color filter, its manufacture and liquid crystal display using same
IN Sakaeda, Takeshi; Myazaki, Takeshi; Shirota, Katsuhiro
PA Canon Kk, Japan
SO Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

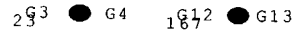
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08029772	A2	19960202	JP 1994-164058	19940715
PRAI	JP 1994-164058		19940715		

AB In manufacturing a color filter by ink-jetting an ink on a support to form multiple colored pixels, the ink contains a dye I (Ar = Ph or naphthyl substituted with CH3, OCH3, SO3M, CO2M, NHCOCH3 or Cl, unsubstituted naphthyl; R = SO3M, CO2M; M = alkaline metal, ammonium, organic ammonium; n = 0-2). Manufacture of the color filter and the liquid crystal display using the color filter are claimed.

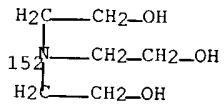
MSTR 1



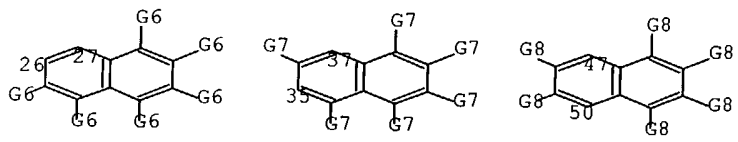
G1 = Ph (SR (1-) G2) / **naphthyl (SO (1-) G2)**
G2 = Me / OMe / 23 / 167 / NHCOMe / Cl

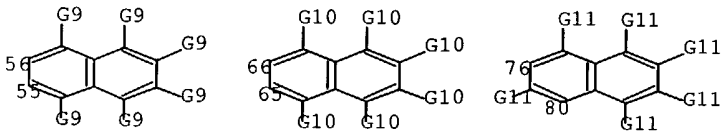


G3 = **SO3H** / CO2H
G4 = alkali metal atom / NH3 (SO) / (EX NMe3 / 152)

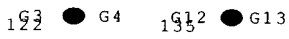


G5 = **27-20 26-22** / 37-20 35-22 / 47-20 50-22 / 56-20 55-22 / 66-20 65-22 / 76-20 80-22

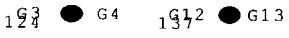




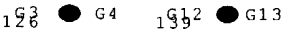
G6 = (4-) H / 122 / 135



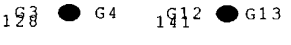
G7 = (4-) H / 124 / 137



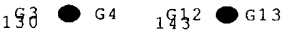
G8 = (4-) H / 126 / 139



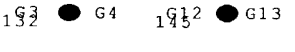
G9 = (4-) H / 128 / 141



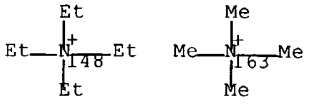
G10 = (4-) H / 130 / 143



G11 = (4-) H / 132 / 145



G12 = sulfonate / carboxylate
G13 = R<TX "ammonium"> / (EX 148 / 163)



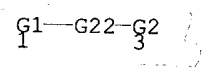
MPL: claim 1

L75 ANSWER 31 OF 45 MARPAT COPYRIGHT 2004 ACS on STN
AN 121:11966 MARPAT
TI Azo pigment compositions for solvent- and water-based inks
IN Kammer, Joseph
PA Hoechst Celanese Corp., USA
SO U.S., 9 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5298535	A	19940329	US 1992-956149	19921005
	EP 592907	A1	19940420	EP 1993-115960	19931002
	JP 06220351	A2	19940809	JP 1993-281594	19931005
PRAI	US 1992-956149	19921005			

AB Title compns. comprise mono- or disazo pigments and water-insol. metal salts of water-soluble polymers. Diazotized 2,5-dichloroaniline was coupled with Naphthol AS in an aqueous solution containing Morez 200 (acrylic styrene polymer), stirred with aqueous NaOH solution to a pH of 8-9, stirred with aqueous CaCl2 solution, heated to 90°, stirred for 30 min, cooled, filtered, washed, dried, and ground to form a product, which was used in preparing aqueous flexog. inks or organic solvent inks and gave prints with good strength and gloss.

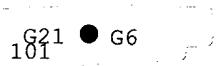
MSTR 1

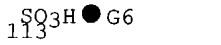


G1 = 25 / 30 / 79 / 106 / **naphthyl (SR G12)**

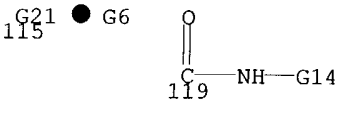
G2 = Ph (SO (1-3) G16) / **naphthyl (SO (1-3) G16)**

G6 = Na / Ca / Sr / Ba / Mg / Al / Mn

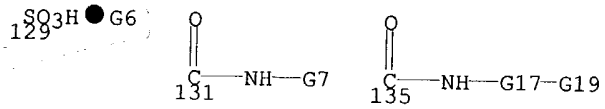




G12 = **(1) OH** / (0-3) G13
G13 = alkyl<(1-4)> / alkoxy<(1-4)> / CO2H / 115 / SO3H / NO2 / Cl / Br / I / F / CONH2 / 119



G16 = alkyl<(1-4)> / alkoxy<(1-4)> / Cl / Br / I / F / NO2 / **SO3H** / 129 / CONH2 / 131 / 135



G21 = **SO3H** / CO2H
G22 = **N=N** / 152-1 161-3

L75 ANSWER 39 OF 45 MARPAT COPYRIGHT ACS on STN

AN 117:253946 MARPAT Full-text

TI Stabilized liquid per salt bleach compositions

IN Woods, William G.

PA United States Borax and Chemical Corp., USA

SO PCT Int. Appl., 41 pp.
CODEN: PIXXD2

DT Patent

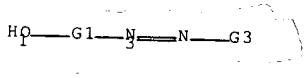
LA English

FAN.CNT 1

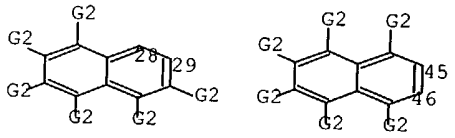
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9207790	A1	19920514	WO 1991-US6322	19910904
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	US 5180517	**A**	**19930119**	**US 1990-609272**	**19901105**
	CA 2072757	AA	19920506	CA 1991-2072757	19910904
	EP 507917	A1	19921014	EP 1991-919301	19910904
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 05502852	T2	19930520	JP 1991-516684	19910904
	JP 2558407	B2	19961127		
	US 5326494	A	19940705	US 1992-953909	19920930
PRAI	US 1990-609272	19901105			
	WO 1991-US6322	19910904			

AB The title compns. are stabilized against loss of active O during storage by adding an azo compound o-(HO)ArN:NR (Ar = Ph, naphthyl, or substituted derivs.; R = Ar or unsatd. heterocyclic group containing C and N). A composition containing Na perborate tetrahydrate 33.33, NaH2PO4.H2O 33.3, water 100, and Erichrome Black T (I) 0.084 g showed active loss during storage at 45° for 14 days 5.1%, vs. 35-45 without I.

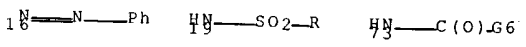
MSTR 1B



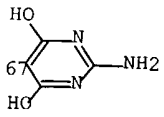
G1 = 29-1 28-3 / **45-1 46-3**



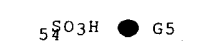
G2 = H / R / (SC NO2 / NH2 / loweralkoxy / OH / loweralkyl / X / **SO3H** / 16 / CO2H / 73 / 19 / acyl / Hy)



G3 = Ph (SO (1-) G4) / **naphthyl (SO (1-) G4)** / Hy<EC (1-) Q (1-) N (0) OTHERQ, BD (1-) D> (SO (1-) G4) / (EX 67)



G4 = R / (SC NH2 / NO2 / loweralkyl / OH / 54)



G5 = alkali metal atom
G6 = NH2 / Me
MPL: claim 1

130565

SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 8-23-04 Serial # 10/657,485 Priority Application Date 9/8/2003

Your Name Anthony Green Examiner # 65854

AU 1755 Phone 21367 Room Rem 9C15

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If submitting more than one search, please prioritize in order of need.

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

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Other: _____

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. _____

What types of references would you like? Please checkmark:

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Secondary Refs ___ Foreign Patents ___
Teaching Refs ___

What is the topic, such as the **novelty**, motivation, utility, or other specific facets defining the desired **focus** of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Azo dye
structure
attached

Staff Use Only	Type of Search	Vendors
Searcher: HARRISON	Structure (#) 1	STN X
Searcher Phone: 22511	Bibliographic X	Dialog
Searcher Location: STIC-EIC2800, JEF-4B68	Litigation	Questel/Orbit
Date Searcher Picked Up: 8-25	Fulltext	Lexis-Nexis
Date Completed: 8-26	Patent Family	WWW/Internet X
Searcher Prep/Rev Time: 100	Other	Other
Online Time: 70		